



Use Attainability Analysis

for

WBID 1264 East Branch

Submitted by
BWR

June 1, 2007

Submitted to:
Missouri Department of Natural Resources
Division of Environmental Quality
Water Protection Program

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

I. Water Body Information (For water body being surveyed)

Water Body Name (from USGS 7.5' quad):	East Branch
Missouri Water Body Identification (WBID) Number:	1264
8-digit HUC: 10290108	County: CASS
Upstream Legal Description (from Table H):	1, 44N, 32W
Downstream Legal Description (from Table H):	Mouth
Number of sites evaluated	7
List all sites numbers, listed consequently upstream to downstream:	1, 2, 3 5, 7, 1, 6, 4, 2, 3

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest.

II. Subsegmentation (fill this section out only in cases where subsegmentation is being proposed)

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION IN METERS)			
Upstream Coordinates:		Downstream Coordinates:	
UTM X	Y	UTM X	Y
HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data)			
Global Positioning System (GPS)		Interpolation	
Static Mode		Topographic Map or DRG	
Dynamic Mode (Kinematic)		Aerial Photograph or DOQQ	
Precise Positioning Service		Satellite Imagery	
Signal Averaging		Interpolation Other	
Real Time Differential Processing			
HORIZONTAL ACCURACY ESTIMATE			
GPS Data Quality		Interpolation Data Quality	
FOM	± _____ Meters	Source Map Scale: 1:24,000 1:100,000 Other _____	
EPE	± <u>17</u> Feet or ± _____ Meters	± _____ Feet or ± _____ Meters	
PDOP			

III. Discharger Facility Information (list all permitted dischargers on the stream)

Discharger Facility Name(s):	Peculiar WWTP, Harrisonville WWTP
Discharger Permit Number(s):	↓ M00089443 ↓ M00028070

IV. UAA Surveyor (please print legibly)

Name of Surveyor	Alan Mitchell	Telephone Number:	913.620.4380
Organization/Employer:	EAE		
Position:	Team Leader		

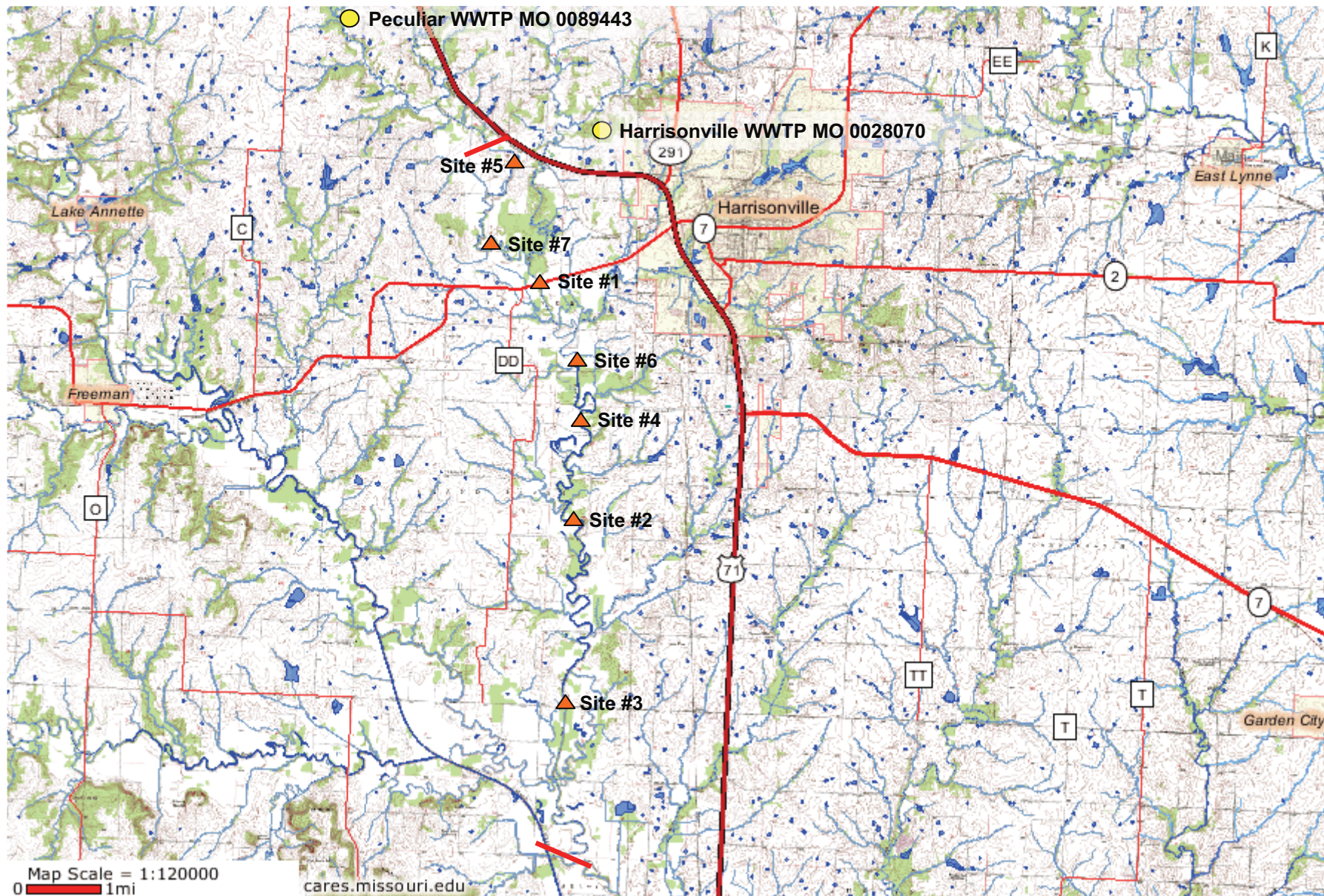
Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Signed: Alan Mitchell

Date: May 22, 2007

February 5, 2007

Page 22



WBID# 1264
Site# 1

Field Data Sheets for Recreational Use Stream Surveys
Data Sheet B - Site Characterization
(must be completed for each site)

Date & Time: <u>5/22/2007-12:30 PM</u>	Site Location Description (e.g., road crossing): <u>Intersection w/ county road 2</u>
Personnel (Data Collectors): <u>Alan Mitchell</u> <u>Alex Bartlett</u>	
Current Weather Conditions: <u>Clear</u>	Facility Name: <u>Peculiar WWTP, Harrisonville WW</u>
Weather Conditions for Past 10 days:	Permit Number: <u>↓M00089443 ↓M00028070</u>
Drought Conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Locations:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)	
Site GPS Coordinates: UTM X: <u>94.39863° W</u>	Y: <u>38.64172° N</u>
HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)	
Global Positioning System (GPS)	Interpolation
Static Mode	Topographic Map or DRG
Dynamic Mode (Kinematic)	Aerial Photograph or DOQQ
Precise Positioning Service	Satellite Imagery
Signal Averaging	Interpolation Other
Real Time Differential Processing	
HORIZONTAL ACCURACY ESTIMATE	
GPS Data Quality	Interpolation Data Quality
FOM ± _____ Meters	Source Map Scale: 1:24,000 1:100,000 Other _____
EPE ± _____ Feet or ± _____ Meters	± _____ Feet or ± _____ Meters
PDOP	

Photos:

Upstream Photos		Downstream Photos		Other Photos	
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<u>45 & 46</u>		<u>43 & 44</u>			

Uses Observed*: (Uses actually observed at time of survey.)

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.)

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Comments:

Indications of Human Use*: (attach photos)

<input type="checkbox"/> Roads	<input type="checkbox"/> Rope swings	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Other:	

Comments:

House 50 M from Left bank of creek near Co. Hwy 2
Alan Mitchell May 22, 2007

February 5, 2007

Channel Feature

RUN: 95%
 RIFFLE: 0%
 POOL: 5%

* Page Two – Data Sheet B for WBID # 1264 : site 1
 Stream Morphology:

Upstream View's Physical Dimensions: Is there any water present at this view? ☒ Yes ☐ No

If so, is there an obvious current? ☒ Yes ☐ No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE	50	8	10	0.3	0.5
RUN					
POOL					

Downstream View's Physical Dimensions: Is there any water present at this view? ☒ Yes ☐ No

If so, is there an obvious current? ☒ Yes ☐ No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE					
RUN					
POOL	0	12	50	1.0	>1.0

Substrate*: (These values should add up to 100%.)

% Cobble	% Gravel	% Sand	% Silt	% Mud/Clay	% Bedrock
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Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site)

Water Characteristics*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input checked="" type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

Comments: Please attach any additional comments () to this form.

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Surveyor's Signature: Charles Mitchell Date of Survey: May 22, 2007

Organization: EAE, Inc. Position: Env. Engr

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264 Site # 1

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect A	1 wetted width	0.2		1 Channel Feature:	
	2 9.0 m	0.6		2 RUN	
	3	0.7		3	
	4 measurements	0.7		4 Dissolved Oxygen	
	5 0.9 m	0.8		5	
	6 apart	0.7		6 9.33 ppm	
	7	0.6		7 106.5 %	
	8	0.5		8 21.9 °C	
	9	0.4		9	
	10	0.1		10	
Transect B				11	
	1 wetted width	0.3		12 Channel Feature:	
	2 9.0 m	0.5		13 RUN	
	3	0.6		14	
	4 measurements	0.7		15 Dissolved Oxygen:	
	5 0.9 m	0.5		16	
	6 apart	0.6		17 9.23 ppm	
	7	0.5		18 106.1 %	
	8	0.4		19 21.9 °C	
	9	0.3		20	
Transect C		0.1		21	
				22	
	1 wetted width	0.4		23 Channel Feature:	
	2 9.0 m	0.6		24 RUN	
	3	0.8		25	
	4 measurements	0.6		26 Dissolved Oxygen	
	5 0.9 m	0.6			
	6 apart	0.6			
	7	0.5			
	8	0.4			
	9	0.4		n 21.9 °C	
	10	0.1			

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: David D. H. H. H.

Date: May 22, 2007

Organization: EAE, Inc.

Position: Env. Eng.

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264

Site # 1

Transect D

Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
1 wetted width	0.3		1	Channel Feature:
2 8.0 m	0.6		2	RUN
3	0.7		3	
4 measurements	0.5		4	Dissolved Oxygen
5 0.8 m	0.6		5	
6 apart	0.5		6	9.36 ppm
7	0.5		7	105.6 %
8	0.5		8	21.9 °C
9	0.3		9	
10	0.6		10	
			11	
11			12	Channel Feature:
12 wetted width	0.2		13	RUN
13 9.0 m	0.5		14	
14	0.5		15	Dissolved Oxygen:
15 measurements	0.6		16	
16 0.9 m	0.6		17	9.32 ppm
17 apart	0.8		18	106.3 %
18	0.5		19	21.8 °C
19	0.5		20	
20	0.4		21	
21	0.2		22	
22			23	Channel Feature:
23 wetted width	0.2		24	RUN
24 8.0 m	0.5		25	
25	0.6		26	Dissolved Oxygen
26 measurements	0.6			
27 0.8 m	0.7			9.37 ppm
28 apart	0.7			105.0 %
29	0.7			21.7 °C
30	0.6			
31	0.2			

Transect E

Transect F

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Gladys Mitchell

Date: May 22, 2007

Organization: EAE, Inc.

Position: Env. Engr

February 5, 2007

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264

Site # 1

Transect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
6	wetted width	0.3		1	Channel Feature:
	10.0 m	0.8		2	Pool
		1.0		3	
	measurements	1.0		4	Dissolved Oxygen
	1.0 m	>1.0		5	
	apart	>1.0		6	9.16 ppm
		>1.0		7	105.5 %
		>1.0		8	21.8 °C
		0.8		9	
		0.3		10	
14	wetted width	0.3		11	
	9.5 m	0.8		12	Channel Feature:
		0.9		13	RUN
	measurements	0.9		14	
	0.9 m	1.0		15	Dissolved Oxygen:
	apart	1.0		16	
		1.0		17	9.35 ppm
		0.9		18	107.2 %
		0.8		19	21.8 °C
		0.4		20	
I	wetted width	0.2		21	
	9.0 m	0.3		22	
		0.4		23	Channel Feature:
	measurements	0.4		24	RUN
	0.9 m	0.4		25	
	apart	0.3		26	Dissolved Oxygen
		0.3			
		0.6			9.16 ppm
		0.5			105.3 %
		<0.1		n	21.9 °C

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Alan M. Whitwell

Date: July 22, 2007

Organization: EAE, Inc.

Position: Env. Engr

February 5, 2007

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264

Site # 1

Transect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
1	wetted width	0.1		1	Channel Feature:
2	7.5 m	0.2		2	RUN
3		0.3		3	
4	measurements	0.3		4	Dissolved Oxygen
5	0.7 m	0.1		5	
6	apart	<0.1		6	8.22 ppm
7		0.1		7	95.2 %
8		0.2		8	22.0 °C
9		0.2		9	
10		<0.1		10	
				11	
Transect 1	wetted width	0.4		12	Channel Feature:
2	4.5 m	0.6		13	RUN
3		0.6		14	
4	measurements	0.5		15	Dissolved Oxygen:
5	0.4 m	0.4		16	
6	apart	0.3		17	9.49 ppm
7		0.2		18	108.6 %
8		0.1		19	20.9
9		<0.1		20	
10		<0.1		21	
				22	
Transect 1	wetted width			23	Channel Feature:
2	— m			24	
3				25	
4	measurements			26	Dissolved Oxygen
5	— m			.	
6	apart			.	
7				.	
8				.	
9				n	
10					

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Alan M. Mitchell

Date: May 22, 2007

Organization: EAE, Inc.

Position: Env. Engr

February 5, 2007

WBID# 1264
 Site# 2

Field Data Sheets for Recreational Use Stream Surveys
Data Sheet B - Site Characterization
 (must be completed for each site)

Date & Time: <u>2:45pm 5/22/2007</u>	Site Location Description (e.g., road crossing): <u>intersection: E 289th St</u>
Personnel (Data Collectors): <u>Alan Mitchell</u> <u>Alex Bartlett</u>	Facility Name: <u>Peculiar WWTP, Harrisonville, MO</u>
Current Weather Conditions: <u>overcast</u>	Permit Number: <u>MO00089443</u> <u>MO00028070</u>
Weather Conditions for Past 10 days: <u>high pressure</u> <u>little rain</u>	
Drought Conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Locations:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)	
Site GPS Coordinates: UTM X: <u>94.38964° W</u>	Y: <u>38.59322° N</u>
HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)	
Global Positioning System (GPS)	Interpolation
Static Mode	Topographic Map or DRG
Dynamic Mode (Kinematic)	Aerial Photograph or DOQQ
Precise Positioning Service	Satellite Imagery
Signal Averaging	Interpolation Other
Real Time Differential Processing	
HORIZONTAL ACCURACY ESTIMATE	
GPS Data Quality	Interpolation Data Quality
FOM ± _____ Meters	Source Map Scale: 1:24,000 1:100,000 Other _____ ± _____ Feet or ± _____ Meters
EPE ± _____ Feet or ± _____ Meters	
PDOP	

Photos:

Upstream Photos		Downstream Photos		Other Photos	
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<u>47 & 48</u>		<u>49 & 50</u>			

Uses Observed*: (Uses actually observed at time of survey.)

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use *Data Sheet D- Recreational Use Interview* when conducting interviews.)

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Comments:

Indications of Human Use*: (attach photos)

<input type="checkbox"/> Roads	<input type="checkbox"/> Rope swings	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Other:	

Comments: Farming - plowed field near access

70 Channel feature

RUN: 65%
 RIFFLE: 20%
 POOL: 15%

* Page Two – Data Sheet B for WBID # 1264: site 2
 Stream Morphology:

Upstream View's Physical Dimensions: Is there any water present at this view? ☒ Yes ☐ No

If so, is there an obvious current? ☒ Yes ☐ No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE					
RUN					
POOL	10	15	100	0.5	1.0

Downstream View's Physical Dimensions: Is there any water present at this view? ☒ Yes ☐ No

If so, is there an obvious current? ☒ Yes ☐ No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE	0	12	30	0.3	0.5
RUN					
POOL					

Substrate*: (These values should add up to 100%.)

5 % Cobble	10 % Gravel	% Sand	% Silt	85 % Mud/Clay	% Bedrock
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Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site)

Emergent Macrophytes - 5%

Water Characteristics*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input checked="" type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

Comments: Please attach any additional comments () to this form.

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Surveyor's Signature: David Mitchell Date of Survey: May 22, 2007

Organization: EAE, Inc. Position: Env. Engr

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264

Site # 2

Transect A

Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
1 wetted width	0.8		1	Channel Feature:
2 11.5 m	0.8 1.0		2	POOL
3	0.8 1.0		3	
4 measurements	1.0		4	Dissolved Oxygen
5 1.1 m	1.0		5	
6 apart	1.0		6	7.98 ppm
7	0.9		7	92.6 %
8	0.7		8	22.2 °C
9	0.3		9	
10	0.1		10	
			11	
Transect B 1 wetted width	0.2		12	Channel Feature:
2 14 m	0.5		13	POOL
3	0.6		14	
4 measurements	0.7		15	Dissolved Oxygen:
5 1.8 m	0.9		16	
6 apart	0.9		17	7.87 ppm
7	0.9		18	91.3 %
8	0.7		19	22.2 °C
9	0.6		20	
10	0.3		21	
			22	
Transect C 1 wetted width	0.3		23	Channel Feature:
2 11.0 m	0.4		24	RUN
3	0.7		25	
4 measurements	0.8		26	Dissolved Oxygen
5 1.1 m	0.9			
6 apart	0.9			8.17 ppm
7	0.9			94.5 %
8	0.7		n	22.2 °C
9	0.5			
10	0.2			

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Alan M. Mitchell

Date: May 22, 2007

Organization: EAE, Inc

Position: Env. Engr.

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264

Site # 2

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect D	1 wetted width	0.3		1 Channel Feature:	
	2 8.5 m	0.4		2 RUN	
	3	0.6		3	
	4 measurements	0.8		4 Dissolved Oxygen	
	5 0.8 m	0.8		5	
	6 apart	0.4		6 8.11	ppm
	7	0.3		7 94.0	%
	8	0.3		8 22.2	°C
	9	0.1		9	
	10 <0.1			10	
Transect E	1 wetted width	0.2		11	
	2 10.0 m	0.3		12 Channel Feature:	
	3	0.8		13 RUN	
	4 measurements	0.6		14	
	5 1.0 m	0.4		15 Dissolved Oxygen:	
	6 apart	0.3		16	
	7	0.3		17 8.01	ppm
	8	0.2		18 93.0	%
	9	0.2		19 22.3	°C
	10 <0.1			20	
Transect F	1 wetted width	0.3		21	
	2 10.0 m	0.4		22	
	3	0.6		23 Channel Feature:	
	4 measurements	0.7		24 RUN	
	5 1.0 m	0.7		25	
	6 apart	0.5		26 Dissolved Oxygen:	
	7	0.3		27 8.11	ppm
	8	0.3		28 93.4	%
	9	0.2		29 22.1	°C
	10 0.1			30	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Alfred W. M. T. T. T.

Date: May 22, 2007

Organization: EAE, Inc.

Position: Env. Eng.

February 5, 2007

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264

Site # 2

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect G	1 wetted width	0.3		1 Channel Feature:	
	2 8.5 12.5 m	0.4		2 RUN	
	3	0.4		3	
	4 measurements	0.4		4 Dissolved Oxygen:	
	5 1.3 m	0.4		5	
	6 apart	0.4		6 8.05 ppm	
	7	0.6		7 91.5 %	
	8	0.6		8 22.2 °C	
	9	0.3		9	
	10	0.1		10	
Transect H	1 wetted width	0.4		12 Channel Feature:	
	2 12.0 m	0.6		13 RUN	
	3	0.6		14	
	4 measurements	0.7		15 Dissolved Oxygen:	
	5 0.2 m	0.7		16	
	6 apart	0.8		17 7.98 ppm	
	7	0.8		18 93.0 %	
	8	0.6		19 22.2 °C	
	9	0.3		20	
	10	0.1		21	
Transect I	1 wetted width	0.2		23 Channel Feature:	
	2 8.5 m	0.2		24	
	3	0.2		25	
	4 measurements	0.3		26 Dissolved Oxygen:	
	5 0.8 m	0.2		RIFFLE	
	6 apart	0.2		8.17 ppm	
	7	0.2		94.5 %	
	8	0.3		22.1 °C	
	9	0.2			
	10	<0.1			

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Alan W. Whitall

Date: May 22, 2007

Organization: EAE, Inc.

Position: Env. Engineer

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264 Site # 2

Transect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
J	1 wetted width	0.2		1	Channel Feature:
	2 8.5 m	0.2		2	RIFFLE
	3	0.2		3	
	4 measurements	0.1		4	Dissolved Oxygen
	5 0.8 m	0.1		5	
	6 apart	0.2		6	8.41 ppm
	7	0.2		7	97.4 %
	8	0.2		8	22.1 °C
	9	0.2		9	
	10	<0.1		10	
K	1 wetted width	<0.1		11	
	2 10.5 m	0.1		12	Channel Feature:
	3	0.3		13	RIFFLE
	4 measurements	0.2		14	
	5 1.0 m	0.2		15	Dissolved Oxygen:
	6 apart	0.1		16	
	7	<0.1		17	8.34 ppm
	8	<0.1		18	96.0 %
	9	<0.1		19	22.1 °C
	10	0.1		20	
L	1 wetted width			21	
	2 m			22	
	3			23	Channel Feature:
	4 measurements			24	
	5 m			25	
	6 apart			26	Dissolved Oxygen
	7			.	
	8			.	
	9			n	
	10				

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Alan J. Metcalf

Date: May 22, 2007

Organization: EAE, Inc.

Position: Env. Engr

WBID# 1264
 Site# 3

Field Data Sheets for Recreational Use Stream Surveys
Data Sheet B - Site Characterization
 (must be completed for each site)

Date & Time: <u>3:50pm 5/22/2007</u>	Site Location Description (e.g., road crossing): <u>County Road W & Hegg Rd.</u>
Personnel (Data Collectors): <u>Alan Mitchell</u> <u>Alex Bartlett</u>	Facility Name: <u>Peculiar NWTP, Harrisonville WW</u>
Current Weather Conditions: <u>Overcast-blustery</u>	Permit Number: <u>MO0089443</u> <u>MO0028070</u>
Weather Conditions for Past 10 days: <u>High Pressure & Sunny</u>	
Drought Conditions?: No drought <input checked="" type="checkbox"/> Phase I <input type="checkbox"/> Phase II <input type="checkbox"/> Phase III <input type="checkbox"/> Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Locations:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)	
Site GPS Coordinates: UTM X: <u>94.39195° W</u>	Y: <u>38.56041° N</u>
HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data):	
Global Positioning System (GPS)	Interpolation
Static Mode	Topographic Map or DRG
Dynamic Mode (Kinematic)	Aerial Photograph or DOQQ
Precise Positioning Service	Satellite Imagery
Signal Averaging	Interpolation Other
Real Time Differential Processing	
HORIZONTAL ACCURACY ESTIMATE	
GPS Data Quality	Interpolation Data Quality
FOM ± _____ Meters	Source Map Scale: 1:24,000 1:100,000 Other _____ ± _____ Feet or ± _____ Meters
EPE ± <u>21</u> Feet or ± _____ Meters	
PDOP	

Photos:

Upstream Photos		Downstream Photos		Other Photos	
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<u>53&54</u>		<u>51&52</u>			

Uses Observed*: (Uses actually observed at time of survey.)

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use *Data Sheet D- Recreational Use Interview* when conducting interviews.)

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Comments:

Indications of Human Use*: (attach photos)

<input type="checkbox"/> Roads	<input type="checkbox"/> Rope swings	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input checked="" type="checkbox"/> Other:	

Comments:

0% Channel Feature

RUN: 100%
RIFFLE: 0%
POOL: 0%

* Page Two -- Data Sheet B for WBID # 1264: site 3
Stream Morphology:

Upstream View's Physical Dimensions: Is there any water present at this view? ☒ Yes ☐ No

If so, is there an obvious current? ☒ Yes ☐ No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE					
RUN	0	12	100	0.5	0.1
POOL					

Downstream View's Physical Dimensions: Is there any water present at this view? ☒ Yes ☐ No

If so, is there an obvious current? ☒ Yes ☐ No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE	20	8	5	0.3	0.5
RUN					
POOL					

Substrate*: (These values should add up to 100%.)

% Cobble	% Gravel	% Sand	% Silt	100 % Mud/Clay	% Bedrock
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Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site)

Water Characteristics*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input checked="" type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

Comments: Please attach any additional comments () to this form.

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Surveyor's Signature: Heidi Mitchell Date of Survey: May 22, 2007

Organization: BAE Inc. Position: Env. Eng

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264

Site # 3

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect A					
1	wetted width	0.6		1	Channel Feature:
2	7.0 m	0.7		2	RUN
3		0.7		3	
4	measurements	0.7		4	Dissolved Oxygen
5	0.7 m	0.7		5	
6	apart	0.6		6	8.34 ppm
7		0.6		7	97.5 %
8		0.6		8	22.8 °C
9		0.5		9	
10		0.3		10	
				11	
Transect B					
1	wetted width	0.4		12	Channel Feature:
2	6.5 m	0.8		13	RUN
3		0.8		14	
4	measurements	0.7		15	Dissolved Oxygen:
5	0.6 m	0.7		16	
6	apart	0.8		17	8.27 ppm
7		0.8		18	96.0 %
8		0.8		19	22.8 °C
9		0.7		20	
10		0.4		21	
				22	
Transect C					
1	wetted width	0.2		23	Channel Feature:
2	4.5 m	0.5		24	RUN
3		0.5		25	
4	measurements	0.5		26	Dissolved Oxygen
5	0.4 m	0.4			
6	apart	0.3			8.35 ppm
7		0.3			97.1 %
8		0.3			22.8 °C
9		0.3		n	
10		0.1			

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Sheila M. J. Jell

Date: May 22, 2007

Organization: EIAE, Inc.

Position: Env. Engr

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264 Site # 3

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect D	1 wetted width	0.2		1	Channel Feature:
	2 8.0 m	0.5		2	RUN
	3	0.6		3	
	4 measurements	0.6		4	Dissolved Oxygen
	5 0.8 m	0.6		5	
	6 apart	0.6		6	8.28 ppm
	7	0.4		7	96.1 %
	8	0.3		8	22.8 °C
	9	0.2		9	
	10	<0.1		10	
Transect E	1 wetted width	0.2		11	
	2 6.5 m	0.3		12	Channel Feature:
	3	0.5		13	RUN
	4 measurements	0.5		14	
	5 0.6 m	0.6		15	Dissolved Oxygen:
	6 apart	0.6		16	RUN
	7	0.7		17	8.28 ppm
	8	0.7		18	96.6 %
	9	0.3		19	22.8 °C
	10	0.1		20	
Transect F	1 wetted width	0.3		21	
	2 6.0 m	0.6		22	
	3	0.5		23	Channel Feature:
	4 measurements	0.7		24	RUN
	5 0.6 m	0.7		25	
	6 apart	0.7		26	Dissolved Oxygen
	7	0.7		.	8.36 ppm
	8	0.6		.	96.8 %
	9	0.3		n	22.8 °C
	10	0.1			

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Alan J. Mitchell

Date: May 22, 2007

Organization: EKE, Inc.

Position: Env. Eng.

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264

Site # 3

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect G					
1	wetted width	0.2		1	Channel Feature:
2	7.0 m	0.5		2	RUN
3		0.7		3	
4	measurements	0.8		4	Dissolved Oxygen
5	0.4 m	0.8		5	
6	apart	0.8		6	8.40 ppm
7		0.8		7	97.7 %
8		0.7		8	22.8 °C
9		0.5		9	
10		0.3		10	
				11	
Transect H					
1	wetted width	<0.1		12	Channel Feature:
2	5.0 m	0.2		13	RUN
3		0.4		14	
4	measurements	0.5		15	Dissolved Oxygen:
5	m	0.5		16	
6	apart	0.5		17	8.45 ppm
7		0.5		18	97.4 %
8		0.3		19	22.8 °C
9		0.2		20	
10		<0.1		21	
				22	
Transect I					
1	wetted width	0.1		23	Channel Feature:
2	6.0 m	0.5		24	RUN
3		0.6		25	
4	measurements	0.6		26	Dissolved Oxygen
5	0.6 m	0.7			
6	apart	0.7			8.32 ppm
7		0.8			96.7 %
8		0.7			22.8 °C
9		0.4			
10		0.2			

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Ala M. M. Tull

Date: May 22, 2007

Organization: EKE, Inc.

Position: Env. Engr

February 5, 2007

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264

Site # 3

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect J	1 wetted width	0.5		1 Channel/Feature:	
	2 6.0 m	0.7		2 RUN	
	3	0.8		3	
	4 measurements	0.8		4 Dissolved Oxygen:	
	5 0.6 m	0.8		5	
	6 apart	0.8		6 8.30	ppm
	7	0.8		7 96.5	%
	8	0.7		8 22.9	°C
	9	0.6		9	
	10	0.2		10	
Transect K	1 wetted width	0.1		11	
	2 6.5 m	0.2		12 Channel/Feature:	
	3	0.3		13 RUN	
	4 measurements	0.3		14	
	5 0.6 m	0.3		15 Dissolved Oxygen:	
	6 apart	0.3		16	
	7	0.3		17 8.44	ppm
	8	0.2		18 97.3	%
	9	0.1		19 22.9	°C
	10	<0.1		20	
Transect	1 wetted width			21	
	2			22	
	3			23 Channel/Feature:	
	4			24	
	5 measurements			25	
	6			26 Dissolved Oxygen:	
	7			.	
	8			.	
	9			n	
	10				

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Alex J. Mitchell

Date: May 22, 2007

Organization: EAB, Inc.

Position: Env. Engr

WBID# 1264
 Site# 4

Field Data Sheets for Recreational Use Stream Surveys
Data Sheet B - Site Characterization
 (must be completed for each site)

Date & Time: <u>May 26, 2007</u>	Site Location Description (e.g., road crossing): <u>off bridge at 278th</u>
Personnel (Data Collectors): <u>AMD, JPS</u>	
Current Weather Conditions: <u>Overcast</u>	Facility Name: <u>Regular WWTP</u> <u>Harrisville, WV</u>
Weather Conditions for Past 10 days: <u>Rain in past 48</u>	Permit Number: <u>M00089413, M00028070</u>
Drought Conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Locations:

LOCATION COORDINATES: UNIVERSAL TRANSVERSE MERCATOR PROJECTION IN METERS	
Site GPS Coordinates: UTM X: <u>094.3871</u> <u>4N</u>	Y: <u>33.6102</u> <u>N</u>
HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)	
Global Positioning System (GPS)	
Static Mode	Interpolation
Dynamic Mode (Kinematic)	Topographic Map or DRG
Precise Positioning Service	Aerial Photograph or DOQQ
Signal Averaging	Satellite Imagery
Real Time Differential Processing	Interpolation Other
HORIZONTAL ACCURACY ESTIMATE	
GPS Data Quality	Interpolation Data Quality
FOM ± _____ Meters	Source Map Scale: 1:24,000 1:100,000 Other _____ ± _____ Feet or ± _____ Meters
EPE ± _____ Feet or ± _____ Meters	
PDOP	

Photos:

Upstream Photos		Downstream Photos		Other Photos	
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<u>1</u>	<u>up</u>	<u>2</u>	<u>ds</u>		

Uses Observed*: (Uses actually observed at time of survey.)

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.)

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input checked="" type="checkbox"/> Steep slopes	<input type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Comments:

Indications of Human Use*: (attach photos)

<input type="checkbox"/> Roads	<input type="checkbox"/> Rope swings	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Other:	

Comments:

910 CHANNEL FEATURES

* Page Two – Data Sheet B for WBID # 1264 : SITE #

RUN - 30
RIFLE - 60
POOL - 10

Stream Morphology:

Upstream View's Physical Dimensions: Is there any water present at this view? ☐ Yes ☐ No

If so, is there an obvious current? ☐ Yes ☐ No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFLE					
RUN					
POOL					

Downstream View's Physical Dimensions: Is there any water present at this view? ☐ Yes ☐ No

If so, is there an obvious current? ☐ Yes ☐ No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFLE					
RUN					
POOL					

Substrate*: (These values should add up to 100%.)

<u>90</u> % Cobble	<u>10</u> % Gravel	% Sand	% Silt	% Mud/Clay	% Bedrock
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Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site)

macrophytes

Water Characteristics*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input checked="" type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input checked="" type="checkbox"/> Foam	<input type="checkbox"/> None	<input type="checkbox"/> Other:

Comments: Please attach any additional comments () to this form.

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Surveyor's Signature: Amy M. Deaton Date of Survey: 5/12/07
Organization: BWR Position: ENV. SCF

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264

Site # 4

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect A	1 wetted width	<0.1m			
	2 6m m	<0.1m		1	Channel Feature:
	3	<0.1m		2	RIPPLE
	4 measurements	0.7m		3	
	5 0.6 m	0.7m		4	Dissolved Oxygen
	6 apart	0.7m		5	
	7	0.7m		6	6.8 ppm
	8	0.1m		7	7
	9	0.1m		8	
	10	<0.1m		9	
Transect B	1 wetted width	2m		10	
	2 10 m	2m		11	
	3	2m		12	Channel Feature:
	4 measurement	1m		13	ELUV
	5 1.0 m	1m		14	
	6 apart	1m		15	Dissolved Oxygen:
	7	<0.1		16	
	8	<0.1m		17	6.8 ppm
	9	<0.1m		18	7
	10	<0.1m		19	
Transect C	1 wetted width	<0.1m		20	
	2 7.0 m	0.7m		21	
	3	0.7m		22	
	4 measurements	0.3m		23	Channel Feature:
	5 0.7 m	0.5m		24	Red / RIFLE
	6 apart	0.3		25	
	7	0.7m		26	Dissolved Oxygen
	8	0.1m			
	9	0.1m			
	10	<0.1m		n	6.7 ppm

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth the middle rank is the median depth.
If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UA datasheet is true and accurate.

Signed: Amy M. Bantock

Date: 5/29/07

Organization: BWR

Position: ENV. SCI

February 5, 2007

Data Sheet C -- Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264

Site # 4

Transect D

Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
1 wetted width	< 0.1m			
2 10 m	0.3m		1	Channel Feature:
3	0.1m		2	RIPPLE
4 measurements	0.1m		3	
5 1.0 m	0.1m		4	Dissolved Oxygen:
6 apart	0.1m		5	
7	0.7m		6	6.9 ppm
8	0.2m		7	7
9	0.1m		8	
10	< 0.1m		9	
			10	
			11	
1 wetted width	< 0.1m		12	Channel Feature:
2 14 m	0.1m		13	RIPPLE
3	0.1m		14	
4 measurements	0.1m		15	Dissolved Oxygen:
5 1.4 m	0.7m		16	
6 apart	0.1m		17	6.8 ppm
7	0.1m		18	7
8	< 0.1m		19	
9	0.3m		20	
10	0.1m		21	
			22	
1 wetted width	0.1m		23	Channel Feature:
2 4.0 m	< 0.1m		24	RIPPLE
3	0.1m		25	
4 measurements	0.2m		26	Dissolved Oxygen:
5 0.9 m	0.2m			
6 apart	0.2m			6.8 ppm
7	0.1m			7
8	0.1m			
9	0.1m			
10	< 0.1m			

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth the middle rank is the median depth.
If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UA datasheet is true and accurate.

Signed: Amey M. Dyalan

Date: 5/28/07

Organization: BNR

Position: Env. Sci

February 5, 2007

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264

Site # 4

Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect G				
1 wetted width	< 0.1m			
2 8.0 m	0.1m		1	Channel Feature:
3	0.1m		2	RIPPLE
4 measurements	0.1m		3	
5 0.8 m	< 0.1m		4	Dissolved Oxygen:
6 apart	0.1m		5	
7	0.3m		6	6.9 ppm
8	0.3m		7	7.2
9	0.2m		8	
10	0.1m		9	
			10	
Transect H				
1 wetted width	< 0.1m		11	
2 12.5 m	< 0.1m		12	Channel Feature:
3	< 0.1m		13	RIPPLE
4 measurements	0.1m		14	
5 1.2 m	< 0.1m		15	Dissolved Oxygen:
6 apart	< 0.1m		16	
7	0.2m		17	6.9 ppm
8	0.2m		18	7.2
9	0.2m		19	
10	0.1m		20	
			21	
Transect I				
1 wetted width	0.1m		22	
2 10.0 m	< 0.1m		23	Channel Feature:
3	0.1m		24	RUN
4 measurements	0.2m		25	
5 1.6 m	0.2m		26	Dissolved Oxygen:
6 apart	0.2m			
7	0.1m			6.7 ppm
8	0.2m			7.2
9	0.2m		n	
10	0.2m			

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth is the middle rank is the median depth.
If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Amy M. Quabro

Date: 5/20/07

Organization: BWR

Position: ENV. SCI

February 5, 2007

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264

Site # 4

Transect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
J	1 wetted width	0.1m			
	2 12.5 m	0.4m		1	Channel Feature:
	3	0.4m		2	RUN
	4 measurements	0.3m		3	
	5 1.2 m	0.3m		4	Dissolved Oxygen:
	6 apart	0.2m		5	
	7	0.2m		6	6.8 ppm
	8	0.1m		7	
	9	0.1m		8	
	10	<0.1m		9	
K	1 wetted width	0.1m		10	
	2 12.0 m	0.2m		11	
	3	0.2m		12	Channel Feature:
	4 measurements	0.3m		13	RUN
	5 1.2 m	0.3m		14	
	6 apart	0.3m		15	Dissolved Oxygen:
	7	0.3m		16	
	8	0.2m		17	6.7 ppm
	9	0.1m		18	
	10	<0.1m		19	
L	1 wetted width			20	
	2			21	
	3			22	Channel Feature:
	4 measurements			23	
	5			24	
	6			25	Dissolved Oxygen:
	7 apart			26	
	8				
	9				
	10			n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth is the middle rank is the median depth.
 If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAS datasheet is true and accurate.

Signed: Amey M. D. [Signature]

Date: 5/26/07

Organization: BWR

Position: Env. Sci

WBID# 1264
 Site# 9

Field Data Sheets for Recreational Use Stream Surveys
Data Sheet B - Site Characterization
 (must be completed for each site)

Date & Time: <u>May 27, 2007</u>	Site Location Description (e.g., road crossing): <u>Walked in from 253rd</u>
Personnel (Data Collectors): <u>AMD, JRS</u>	
Current Weather Conditions: <u>overcast</u>	Facility Name: <u>Keyport WWTP</u>
Weather Conditions for Past 10 days: <u>Rain in past 48 hrs</u>	Permit Number: <u>M00089443, M0028570</u>
Drought Conditions?: No drought <input checked="" type="checkbox"/> Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Locations:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION IN METERS)	
Site GPS Coordinates: UTM X: <u>094.4137 W</u>	Y: <u>33.65799</u>
HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)	
Global Positioning System (GPS)	
Static Mode	Interpolation
Dynamic Mode (Kinematic)	Topographic Map or DRG
Precise Positioning Service	Aerial Photograph or DOQQ
Signal Averaging	Satellite Imagery
Real Time Differential Processing	Interpolation Other
HORIZONTAL ACCURACY ESTIMATE	
GPS Data Quality	
FOM ± _____ Meters	Interpolation Data Quality: Source Map Scale: 1:24,000 1:100,000 Other _____ ± _____ Feet or ± _____ Meters
EPE ± _____ Feet or ± _____ Meters	
PDOP	

Photos:

Upstream Photos		Downstream Photos		Other Photos	
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<u>74</u>	<u>up</u>	<u>75</u>	<u>ds</u>		

Uses Observed*: (Uses actually observed at time of survey.)

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.)

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input checked="" type="checkbox"/> Steep slopes	<input type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Comments:

Indications of Human Use*: (attach photos)

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Rope swings	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Other:	

Comments: tractor road

810 CHANNEL FEATURES

* Page Two – Data Sheet B for WBID # 1264 : SITE # 5
Stream Morphology:

Run - 90%
Riffle - 5%
Pool - 5%

Upstream View's Physical Dimensions: Is there any water present at this view? ☐ Yes ☐ No

If so, is there an obvious current? ☐ Yes ☐ No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE					
RUN					
POOL					

Downstream View's Physical Dimensions: Is there any water present at this view? ☐ Yes ☐ No

If so, is there an obvious current? ☐ Yes ☐ No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE					
RUN					
POOL					

Substrate*: (These values should add up to 100%.)

% Cobble	% Gravel	<u>20</u> % Sand	% Silt	<u>80</u> % Mud/Clay	% Bedrock
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Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site)

Macrophytes

Water Characteristics*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input checked="" type="checkbox"/> Other: <u>Brown</u>
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

Comments: Please attach any additional comments () to this form.

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Surveyor's Signature: Amy M. Bialkowski Date of Survey: 5/20/07
Organization: BWR Position: ENV. SCI

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264

Site # 5

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect A	1 wetted width	0.1m			
	2 5.5 m	0.3m		1	Channel Feature:
	3	0.3m		2	Run
	4 measurements	0.4m		3	
	5 0.5 m	0.4m		4	Dissolved Oxygen
	6 apart	0.3m		5	
	7	0.5m		6	7.3 ppm
	8	0.4m		7	7
	9	0.5m		8	
	10	0.1m		9	
Transect B	1 wetted width	0.1m		10	
	2 5.0 m	0.1m		11	
	3	0.3m		12	Channel Feature:
	4 measurements	0.5m		13	Run
	5 0.5 m	0.5m		14	
	6 apart	0.5m		15	Dissolved Oxygen:
	7	0.5m		16	
	8	0.5m		17	7.5 ppm
	9	0.3m		18	7
	10	0.1m		19	
Transect C	1 wetted width	0.1m		20	
	2 5.5 m	0.4m		21	
	3	0.5m		22	
	4 measurements	0.6m		23	Channel Feature:
	5 0.5 m	0.7m		24	Run
	6 apart	0.8m		25	
	7	0.7m		26	Dissolved Oxygen
	8	0.4m			
	9	0.3m			7.5 ppm
	10	<0.1m		n	7

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth is the middle rank is the median depth.
 If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAS datasheet is true and accurate.

Signed: [Signature]

Date: 5/26/07

Organization: BWR

Position: ENV. SCF

February 5, 2007

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264

Site # 5

Transect D

Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
1 wetted width	0.2m		1	Channel Feature:
2 5.5 m	0.3m		2	Pool Pool
3	0.4m		3	
4 measurements	0.5m		4	Dissolved Oxygen
5 0.5 m	0.6m		5	
6 apart	0.6m		6	7.3 ppm
7	0.4m		7	7
8	0.3m		8	
9	0.1m		9	
10	<0.1m		10	
			11	
Transect E 1 wetted width	<0.1m		12	Channel Feature:
2 4.0 m	0.2m		13	Run
3	0.4m		14	
4 measurements	0.2m		15	Dissolved Oxygen:
5 0.4 m	0.3m		16	
6 apart	0.5m		17	7.4 ppm
7	0.2m		18	7
8	0.2m		19	
9	0.2m		20	
10	0.1m		21	
			22	
Transect F 1 wetted width	0.1m		23	Channel Feature:
2 2.8 m	0.1m		24	RIPPLE
3	0.1m		25	
4 measurements	0.1m		26	Dissolved Oxygen
5 0.28m	0.1m			
6 apart	0.1m			7.5 ppm
7	0.1m			7
8	0.1m			
9	0.1m		n	
10	<0.1m			

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth the middle rank is the median depth.
If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UA datasheet is true and accurate.

Signed: Amy M. DeBord

Date: 5/20/07

Organization: BWR

Position: ENV. SCI

February 5, 2007

Data Sheet C -- Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1064

Site # 5

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect G	wetted width	< 0.1m			
	4.0 m	0.1m		1	Channel Feature:
		0.2m		2	RUN
	measurements	0.3m		3	
	m	0.3m		4	Dissolved Oxygen:
	apart	0.3m		5	
		0.2m		6	7.4 ppm
		< 0.1m		7	7
		< 0.1m		8	
		< 0.1m		9	
Transect H	wetted width	< 0.1m		10	
	5.8 m	0.1m		11	
		0.2m		12	Channel Feature:
	measurements	0.4m		13	RUN
	0.5 m	0.5m		14	
	apart	0.4m		15	Dissolved Oxygen:
		0.3m		16	
		0.2m		17	7.2 ppm
		0.1m		18	7
		< 0.1m		19	
Transect I	wetted width	< 0.1m		20	
	5.1 m	0.1m		21	
		0.2m		22	Channel Feature:
	measurements	0.1m		23	RUN
	0.5 m	0.1m		24	
	apart	0.3m		25	Dissolved Oxygen:
		0.4m		26	
		0.3m		.	7.2 ppm
		0.2m		.	7
		< 0.1m		n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth is the middle rank is the median depth.
 If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Fang M. Quintana

Date: 5/27/07

Organization: BWR

Position: ENV. SCI

February 5, 2007

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1964

Site # 5

Transect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
1	wetted width	< 0.1m			
2	4.5 m	0.2m		1	Channel Feature:
3		0.3m		2	RUN
4	measurements	0.4m		3	
5	0.4 m	0.3m		4	Dissolved Oxygen
6	apart	0.2m		5	
7		0.1m		6	7.3 ppm
8		0.1m		7	7.2
9		0.1m		8	
10		< 0.1m		9	
				10	
Transect 1	wetted width	< 0.1m		11	
2	8.0 m	< 0.1m		12	Channel Feature:
3		< 0.1m		13	PIFFLE
4	measurements	< 0.1m		14	
5	0.8 m	< 0.1m		15	Dissolved Oxygen:
6	apart	< 0.1m		16	
7		0.1m		17	
8		0.2m		18	ppm
9		< 0.1m		19	7.2
10		< 0.1m		20	
				21	
Transect 1	wetted width			22	
2	_____ m			23	Channel Feature:
3				24	
4	measurements			25	
5	_____ m			26	Dissolved Oxygen
6	apart			.	
7				.	
8				.	ppm
9				.	7.2
10				n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth is the middle rank is the median depth.
If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAS datasheet is true and accurate.

Signed: [Signature] Date: 5/27/07
Organization: RWR Position: Env. Sci

February 5, 2007

WBID# 1264
Site# 6

Field Data Sheets for Recreational Use Stream Surveys
Data Sheet B - Site Characterization
(must be completed for each site)

Date & Time: <u>May 07, 2007</u>	Site Location Description (e.g., road crossing): <u>off bridge at 207th St.</u>
Personnel (Data Collectors): <u>AND, JPS</u>	
Current Weather Conditions: <u>Light Rain</u>	Facility Name: <u>Raylar WWTP</u>
Weather Conditions for Past 10 days: <u>Light Rain</u>	Permit Number: <u>MO 0089443, MO 028670</u>
Drought Conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Locations:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION IN METERS)	
Site GPS Coordinates: UTM X: <u>094.3932 W</u>	Y: <u>38.6291 N</u>
HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)	
Global Positioning System (GPS)	
Static Mode	Interpolation
Dynamic Mode (Kinematic)	Topographic Map or DRG
Precise Positioning Service	Aerial Photograph or DOQQ
Signal Averaging	Satellite Imagery
Real Time Differential Processing	Interpolation Other
HORIZONTAL ACCURACY ESTIMATE	
GPS Data Quality	
FOM	± _____ Meters
EPE	± <u>20</u> Feet or ± _____ Meters
PDOP	
Interpolation Data Quality	
Source Map Scale: 1:24,000 1:100,000 Other _____	
± _____ Feet or ± _____ Meters	

Photos:

Upstream Photos		Downstream Photos		Other Photos	
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
	<u>up</u>		<u>down</u>		

Uses Observed*: (Uses actually observed at time of survey.)

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.)

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input checked="" type="checkbox"/> Steep slopes	<input type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Comments:

Indications of Human Use*: (attach photos)

<input type="checkbox"/> Roads	<input type="checkbox"/> Rope swings	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Other:	

Comments: None

810 CHANNEL FEATURES

* Page Two – Data Sheet B for WBID # 1264 : SITE # 6
Stream Morphology:

Run - 90%
Riffle - 5%
Pool - 5%

Upstream View's Physical Dimensions: Is there any water present at this view? ☐ Yes ☐ No
If so, is there an obvious current? ☐ Yes ☐ No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE					
RUN					
POOL					

Downstream View's Physical Dimensions: Is there any water present at this view? ☐ Yes ☐ No
If so, is there an obvious current? ☐ Yes ☐ No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE					
RUN					
POOL					

Substrate*: (These values should add up to 100%.)

<u>5</u> % Cobble	% Gravel	<u>5</u> % Sand	% Silt	<u>90</u> % Mud/Clay	% Bedrock
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Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site)

macrophytes

Water Characteristics*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input checked="" type="checkbox"/> Other: <u>brown</u>
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

Comments: Please attach any additional comments () to this form.

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Surveyor's Signature: Amy M. Gudimov Date of Survey: 5/27/07
Organization: BWR Position: DW. SEC

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264

Site # 6

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect A	1 wetted width	0.1m			
	2 11 m	0.5m		1	Channel Feature:
	3	0.5m		2	RUN
	4 measurements	0.5m		3	
	5 1.1 m	0.5m		4	Dissolved Oxygen
	6 apart	0.4m		5	
	7	0.3m		6	10.9 ppm
	8	0.5m		7	7
	9	0.4m		8	
	10	0.3m		9	
Transect B	1 wetted width	0.1m		10	
	2 12.0 m	0.1m		11	
	3	0.7m		12	Channel Feature:
	4 measurements	0.6m		13	RUN
	5 1.2 m	0.5m		14	
	6 apart	0.5m		15	Dissolved Oxygen:
	7	0.6m		16	
	8	0.6m		17	6.9 ppm
	9	0.1m		18	7
	10	0.1m		19	
Transect C	1 wetted width	0.1m		20	
	2 10.5 m	0.6m		21	
	3	0.7m		22	
	4 measurements	0.7m		23	Channel Feature:
	5 1.0 m	0.7m		24	RUN
	6 apart	0.7m		25	
	7	0.7m		26	Dissolved Oxygen
	8	0.7m			
	9	0.5m			
	10	0.1m		n	10.8 ppm

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth the middle rank is the median depth.
If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UA datasheet is true and accurate.

Signed: Greg M. Gaudet

Date: 5/27/07

Organization: BWR

Position: ENV. SCI.

February 5, 2007

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264

Site # 10

Transect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect D	1 wetted width	0.3m			
	2 10.0 m	0.5m		1	Channel Feature:
	3	0.8m		2	Run
	4 measurements	0.9m		3	
	5 1.0 m	0.9m		4	Dissolved Oxygen:
	6 apart	0.9m		5	
	7	0.9m		6	6.8 ppm
	8	0.9m		7	7
	9	0.6m		8	
	10	0.3m		9	
Transect E	1 wetted width	0.3m		10	
	2 10.0 m	0.4m		11	
	3	0.4m		12	Channel Feature:
	4 measurements	1.0m		13	Run
	5 1.0 m	1.0m		14	
	6 apart	1.0m		15	Dissolved Oxygen:
	7	1.0m		16	
	8	0.9m		17	6.6 ppm
	9	0.9m		18	7
	10	0.3m		19	
Transect F	1 wetted width	0.5m		20	
	2 8.0 m	0.9m		21	
	3	0.9m		22	Channel Feature:
	4 measurements	0.9m		23	Run
	5 0.8 m	0.9m		24	
	6 apart	0.9m		25	Dissolved Oxygen:
	7	0.8m		26	
	8	0.5m			6.7 ppm
	9	0.3m			7
	10	0.1m			

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth the middle rank is the median depth.
If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UA datasheet is true and accurate.

Signed: Amy M. Goodluck

Date: 5/27/07

Organization: BWR

Position: ENV. SCF.

February 5, 2007

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264

Site # 6

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect G	wetted width	0.2m			
	7.0 m	0.2m		1	Channel Feature:
		0.5m		2	Run
	measurements	0.9m		3	
	0.9 m	0.8m		4	Dissolved Oxygen
	apart	0.9m		5	
		0.8m		6	7.0 ppm
		0.9m		7	7
		0.9m		8	
		0.3m		9	
Transect H	wetted width	0.2m		10	
	9.5 m	0.3m		11	
		0.4m		12	Channel Feature:
	measurements	0.9m		13	Run
	0.9 m	0.9m		14	
	apart	0.9m		15	Dissolved Oxygen:
		0.8m		16	
		0.9m		17	7.1 ppm
		0.7m		18	7
		0.2m		19	
Transect I	wetted width	0.1m		20	
	11.0 m	0.3m		21	
		0.8m		22	
	measurements	0.9m		23	Channel Feature:
	1.1 m	0.9m		24	Run
	apart	0.9m		25	
		0.9m		26	Dissolved Oxygen
		0.7m			
		0.4m			
		0.2m		n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth is the middle rank is the median depth.
 If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Amy M. D. [Signature]

Date: 5/27/07

Organization: BWR

Position: ENV. SCI.

February 5, 2007

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264

Site # 6

Transect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
1	wetted width	0.3m			
2	8.0 m	0.5m		1	Channel Feature:
3		0.5m		2	Run
4	measurements	0.8m		3	
5	0.8 m	0.9m		4	Dissolved Oxygen
6	apart	0.9m		5	
7		0.9m		6	6.9 ppm
8		0.9m		7	
9		0.6m		8	
10		0.3m		9	
				10	
				11	
1	wetted width	0.5 m			
2	10.0 m	0.9 m		12	Channel Feature:
3		0.9m		13	Run
4	measurements	0.9m		14	
5	1.0 m	0.8m		15	Dissolved Oxygen:
6	apart	0.8m		16	
7		0.7m		17	7.1 ppm
8		0.7m		18	
9		0.7m		19	
10		0.3m		20	
				21	
				22	
1	wetted width				
2	m			23	Channel Feature:
3				24	
4	measurements			25	
5	m			26	Dissolved Oxygen
6	apart				
7					
8					
9					
10				n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth is the middle rank is the median depth.
If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAS datasheet is true and accurate.

Signed: Ang M. Gualteros

Date: 5/27/07

Organization: BWR

Position: ENV. SCI.

WBID# 1264
 Site# 7

Field Data Sheets for Recreational Use Stream Surveys
Data Sheet B - Site Characterization
 (must be completed for each site)

Date & Time: <u>05-30-07 11:45</u>	Site Location Description (e.g., road crossing): <u>UPSTREAM FROM HWY 2 BRIDGE</u>
Personnel (Data Collectors): <u>Lunt & Bartlett</u>	Facility Name: <u>Regular WWTP</u>
Current Weather Conditions: <u>Overcast 70-75°F</u>	Permit Number: <u>M60089443, M00028070</u>
Weather Conditions for Past 10 days: <u>Sunny/Rain</u>	
Drought Conditions?: No drought <input checked="" type="checkbox"/> Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Locations:

LOCATION COORDINATES: UNIVERSAL TRANSVERSE MERCATOR PROJECTION IN METERS	
Site GPS Coordinates: UTM X: <u>38,64349</u>	Y: <u>094,40133</u>
HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)	
Global Positioning System (GPS)	
Static Mode	Interpolation
Dynamic Mode (Kinematic)	Topographic Map or DRG
Precise Positioning Service	Aerial Photograph or DOQQ
Signal Averaging	Satellite Imagery
Real Time Differential Processing	Interpolation Other
HORIZONTAL ACCURACY ESTIMATE	
GPS Data Quality	
FOOM ± _____ Meters	Interpolation Data Quality
EPE ± _____ Feet or ± _____ Meters	
PDOP	
Source Map Scale: 1:24,000 1:100,000 Other _____	
± _____ Feet or ± _____ Meters	

Photos:

Upstream Photos		Downstream Photos		Other Photos	
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<u>1264-3,4</u>	<u>TRAN. J-K</u>	<u>1264-1,2</u>	<u>TRAN. B-A</u>		

Uses Observed*: (Uses actually observed at time of survey.)

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.)

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input checked="" type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	<input type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Comments:

Indications of Human Use*: (attach photos)

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Rope swings	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Other:	

Comments: HWY 2

* Page Two - Data Sheet B for WBID # 1264: SITE # 7
Stream Morphology:

Run - 70
Riffle - 30
Pool -

Upstream View's Physical Dimensions: Is there any water present at this view? ☐ Yes ☐ No

If so, is there an obvious current? ☐ Yes ☐ No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE					
RUN					
POOL					

Downstream View's Physical Dimensions: Is there any water present at this view? ☐ Yes ☐ No

If so, is there an obvious current? ☐ Yes ☐ No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE					
RUN					
POOL					

Substrate*: (These values should add up to 100%.)

<u>60</u> % Cobble	% Gravel	<u>20</u> % Sand	<u>20</u> % Silt	% Mud/Clay	% Bedrock
--------------------	----------	------------------	------------------	------------	-----------

Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site)

PERIPHYTONS ON COBBLE SUBSTRATE

Water Characteristics*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input checked="" type="checkbox"/> Foam	<input type="checkbox"/> None	<input type="checkbox"/> Other:

Comments: Please attach any additional comments () to this form.

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Surveyor's Signature: Ryan M. Lunt Date of Survey: 05-30-07
Organization: Seagull Environmental Technologies Inc. Position: Environmental Scientist

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264

Site # 7

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect A	1 wetted width	0.1			
	2 8.0 m	0.2		1	Channel Feature:
	3	0.2		2	RUN 100%
	4 measurements	0.2		3	
	5 0.8 m	0.3		4	Dissolved Oxygen
	6 apart	0.3		5	
	7	0.3		6	8.61 ppm
	8	0.3		7	96.0 %
	9	0.2		8	
	10	0.1		9	
Transect B	1 wetted width	0.1		10	
	2 8.2 m	0.3		11	
	3	0.3		12	Channel Feature:
	4 measurements	0.3		13	RUN 100%
	5 0.82 m	0.3		14	
	6 apart	0.4		15	Dissolved Oxygen:
	7	0.3		16	
	8	0.4		17	8.43 ppm
	9	0.3		18	95.6 %
	10	0.3		19	
Transect C	1 wetted width	0.1		20	
	2 7.5 m	0.3		21	
	3	0.3		22	
	4 measurements	0.2		23	Channel Feature:
	5 0.75 m	0.2		24	RUN 100%
	6 apart	0.2		25	
	7	0.2		26	Dissolved Oxygen
	8	0.2			
	9	0.1			8.04 ppm
	10	0.1		n	90.3 %

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth the middle rank is the median depth.
If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UA datasheet is true and accurate.

Signed: Ryan M. Lums

Date: 05-30-07

Organization: GOTI

Position: Environmental Scientist

February 5, 2007

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264

Site # 7

Transect D

Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
1 wetted width	0.1		1	Channel Feature:
2 8.0 m	0.1		2	RIFFLE 30%
3	0.1		3	RUN 70%
4 measurements	0.1		4	Dissolved Oxygen
5 0.80 m	0.1		5	
6 apart	0.1		6	8.18 ppm
7	0.1		7	91.2 %
8	0.1		8	
9	0.1		9	
10	0.1		10	
			11	
1 wetted width	0.1		12	Channel Feature:
2 9.5 m	0.3		13	RIFFLE 15%
3	0.3		14	RUN 85%
4 measurements	0.2		15	Dissolved Oxygen:
5 0.95 m	0.3		16	
6 apart	0.4		17	7.78 ppm
7	0.4		18	87.2 %
8	0.3		19	
9	0.3		20	
10	0.2		21	
			22	
1 wetted width	0.7		23	Channel Feature:
2 10.0 m	0.1		24	RUN 100%
3	0.7		25	
4 measurements	0.1		26	Dissolved Oxygen
5 1.0 m	0.7			
6 apart	0.2			7.73 ppm
7	0.2			26.8 %
8	0.1			
9	0.1		n	
10	0.1			

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth the middle rank is the median depth.
If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this U. datasheet is true and accurate.

Signed: Ryan M. Lunt

Date: 05-30-07

Organization: SETI

Position: Environmental Scientist

February 5, 2007

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264

Site # 7

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect G	wetted width	0.2		1	Channel Feature:
	9.0 m	0.5		2	RUN 60%
		0.5		3	RIFFLE 40%
	measurements	0.4		4	Dissolved Oxygen
	0.90 m	0.4		5	
	apart	0.3		6	7.40 ppm
		0.3		7	82.9 %
		0.2		8	
		0.2		9	
		0.1		10	
Transect H	wetted width	0.1		11	
	10.3 m	0.2		12	Channel Feature:
		< 0.1		13	RIFFLE 50%
	measurements	< 0.1		14	RUN 50
	1.3 m	< 0.1		15	Dissolved Oxygen:
	apart	< 0.1		16	
		0.1		17	7.35 ppm
		0.1		18	82.0 %
		0.1		19	
		0.1		20	
Transect I	wetted width	0.3		21	
	10.0 m	0.4		22	
		0.4		23	Channel Feature:
	measurements	0.3		24	RUN 100%
	1.0 m	0.3		25	
	apart	0.2		26	Dissolved Oxygen
		0.2			7.24 ppm
		0.1			81.1 %
		0.1		n	
		< 0.1			

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth the middle rank is the median depth.
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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UA datasheet is true and accurate.

Signed: Ryan M. Lind

Date: 05-30-07

Organization: SETI

Position: Environmental Scientist

February 5, 2007

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

WBID # 1264

Site # 7

Transect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
1	wetted width	< 0.1			
2	11.0 m	< 0.1		1	Channel Feature:
3		0.1		2	RIFLE 100%
4	measurements	< 0.1		3	
5	0.10 m	< 0.1		4	Dissolved Oxygen
6	apart	0.1		5	
7		0.1		6	7.32 ppm
8		0.2		7	81.7 %
9		0.3		8	
10		0.3		9	
				10	
				11	
Transect K	wetted width	< 0.1			
2	0.0 m	< 0.1		12	Channel Feature:
3		0.1		13	RIFLE 50%
4	measurements	0.1		14	Run 95%
5	0.10 m	0.2		15	Dissolved Oxygen:
6	apart	0.2		16	
7		0.2		17	7.12 ppm
8		0.2		18	79.7 %
9		0.1		19	
10		< 0.1		20	
				21	
				22	
Transect	wetted width				
2	m			23	Channel Feature:
3				24	
4	measurements			25	
5	m			26	Dissolved Oxygen
6	apart				
7					
8					
9					
10					

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth the middle rank is the median depth.
If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this U. datasheet is true and accurate.

Signed: Ryan M. Lunt

Date: 05-30-07

Organization: SETI

Position: Environmental Scientist

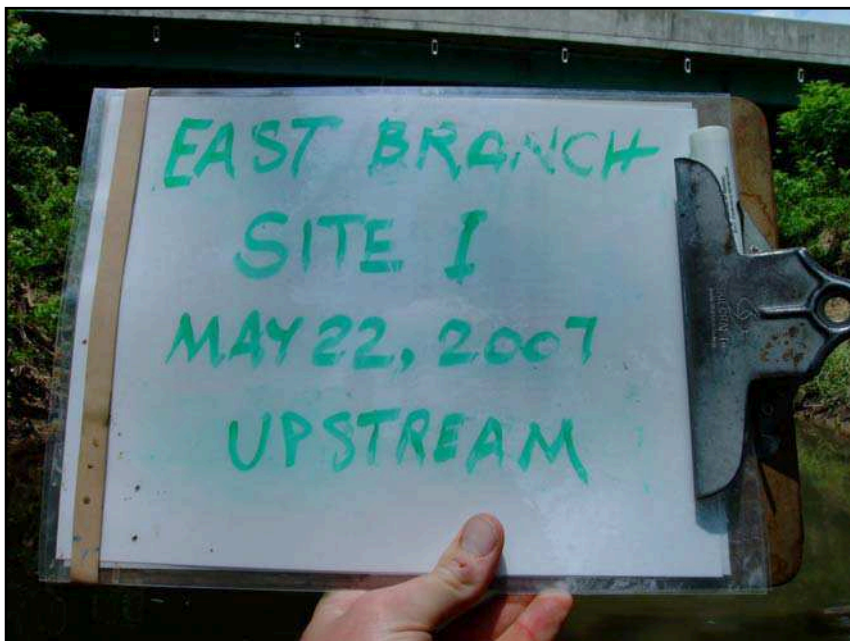
February 5, 2007



Downstream (Site #1) of East Branch.



Downstream (Site #1) of East Branch.



Upstream (Site #1) of East Branch.



Upstream (Site #1) of East Branch.



Upstream (Site #2) of East Branch.



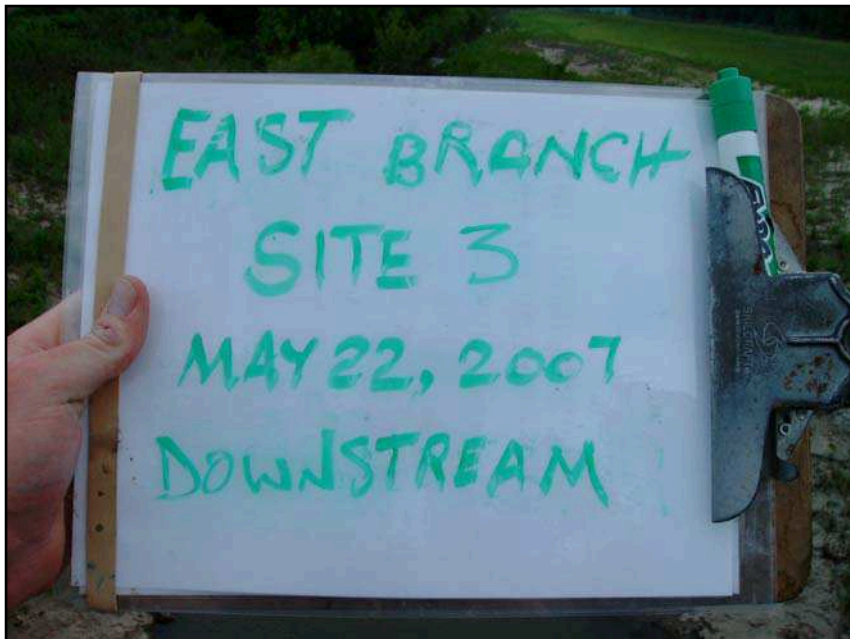
Upstream (Site #2) of East Branch.



Downstream (Site #2) of East Branch.



Downstream (Site #2) of East Branch.



Downstream (Site #3) of East Branch.



Downstream (Site #3) of East Branch.



Upstream (Site #3) of East Branch.



Upstream (Site #3) of East Branch.



East Branch
Site #4 up

Upstream (Site 4) of East Branch



East Branch
Site #4 ds

Downstream (Site 4) of East Branch



East Branch
Site 4 UP

Upstream (Site 5 – mislabeled white board) of East Branch



East Branch
Site 4 DS

Downstream (Site 5 – mislabeled white board) of East Branch



Upstream (Site 6) of East Branch



Downstream (Site 6) of East Branch



Upstream (Site 7) of East Branch



Downstream (Site 7) of East Branch

Field Data Sheet for Recreational Use Stream Survey

Data Sheet D—Recreational Use Interview

Stream Name EAST BRANCH (WBID # 1264)

I. Introduction

Date & Time (include AM or PM): _____

Interviewed: ☐ In person ☐ By phone ☐ By mail

(NOTE: If you are an Interviewee filling out this form to mail back to DNR, proceed to Question #1.)

Interviewee selected because (e.g., house next to stream; standing by stream, etc.) _____

Interviewer introduction to Interviewee: "My name is _____, I work for _____ (name of your employer), and I am collecting information on how people use _____ (name of the stream)."

ASK:

1.) Are you willing to respond to a survey about this stream? (It will just take a few minutes.)

☐ Yes ☐ No If yes, list contact information for the interviewee below:

Legal name: JAMES FAMILINER

Current mailing address: 28013 S. Buford Rd Harrisonville, Mo

Daytime phone number: (816) 380-3449

E-mail address (optional):

64701

2.a.) Do you live in this area? ☒ Yes ☐ No

If yes, how many years?

86 years!
Family Farm for 105 years.

2.b.) If you don't live nearby, are you still familiar with this stream? ☐ Yes ☐ No

If yes, how many years?

If no, thank the individual for taking the time to talk to you and conclude the interview.

3.) Are you familiar with this particular stretch of the stream? (show them the map, pointing out local landmarks such as roads, bridges, property lines) ☐ Yes ☒ No

If yes, proceed to "II. Personal Use?".

If no, proceed to Section V.

II. Personal Use?

1.) Have you or your family personally used the stream for recreation since November 28, 1975?

☐ Yes ☒ No

If yes, proceed to #3.

If no, proceed to #2.

2.a.) List reasons stream not used.

The "kids", who are now in their sixties, used to
swim in the creek, although nowadays
"you wouldn't want to stick your big toe in."

2.b.) Proceed to "III. Witnessed Use?".

3.) How do you use the stream?

Whole Body Contact Recreation

Swimming ☐ Tubing ☐ Snorkeling/Skin Diving ☐ Water Skiing ☐

If Interviewee (or family) used the stream for WBCR since Nov. 28, 1975, ask:

4.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

4.b.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

Secondary Contact Recreation

Fishing ☐ Wading ☐ Boating ☐ Trapping ☐ Other: ☐ List: _____

If Interviewee (or family) used the stream for SCR since Nov. 28, 1975, ask:

4.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

4.d.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

III. Witnessed Use?

1.) Have you observed others using this stream for recreation since Nov. 28, 1975? ☐ Yes ☐ No

If yes, proceed to #2.

If no, proceed to, "IV. Anecdotal Use?".

2.) What kinds of uses have you witnessed?

Whole Body Contact Recreation

Swimming ☐ Tubing ☐ Snorkeling/Skin Diving ☐ Water Skiing ☐

If Interviewee witnessed WBCR use since Nov. 28, 1975, ask the following questions:

2.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.b.) Where, exactly? Describe specific location *and mark on the map* (Seemap requirements in the protocol). _____

Secondary Contact Recreation

Fishing ☐ Wading ☐ Boating ☐ Trapping ☐ Other: ☐ List: _____

If Interviewee witnessed SCR use since Nov. 28, 1975, ask the following questions:

2.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.d.) Where, exactly? Describe specific location *and mark on the map* (Seemap requirements in the protocol). _____

IV. Anecdotal Use?

1.) Have you heard about anyone using this stream since Nov. 28, 1975 for recreation – not seen or done yourself, but just heard about it? ☐ Yes ☐ No

If yes, proceed to #2.

If no, thank the individual for taking the time to talk to you and conclude the interview.

2.) What kind of uses have you heard about?

Whole Body Contact Recreation

Swimming ☐ Tubing ☐ Snorkeling/Skin Diving ☐ Water Skiing ☐

If Interviewee heard of WBCR use since Nov. 28, 1975, ask the following questions:

2.a.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.b.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

Secondary Contact Recreation

Fishing ☐ Wading ☐ Boating ☐ Trapping ☐ Other: ☐ List:

If Interviewee heard of SCR use since Nov. 28, 1975, ask the following questions:

2.c.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.d.) Where, exactly? Describe specific location *and mark on the* (See map requirements in the protocol). _____

V. Others to Contact?

Can you recommend someone else we could contact that knows the stream? ☒ Yes ☐ No
If yes, that person's contact info (name, address, phone, directions?) _____

If no, thank the individual for taking the time to talk to you and conclude the interview.

VI. Additional Comments

1.) From the Interviewee: Neil Kohler, landowner to the north, uses land to water cattle in the winter.

2.) From the Interviewer: _____

VII. Information on Interviewer

Has interviewer been trained by Missouri DNR to conduct UAA Interviews?

☐ Yes ☒ No If yes, how (check all that apply):

Workshop? (if so, enter date): _____

On-line training seminar? _____

Followed Interview Instruction Sheets? _____

Other _____

Interviewer Information:

Signature: [Signature]

Printed Name: JOE Studtmann

Employer (where applicable): BWR Corp.

Interviewer's phone #: 785.218.9752 E-mail: ideoduck@yahoo.com

Field Data Sheet for Recreational Use Stream Survey

Data Sheet D—Recreational Use Interview

Stream Name EAST BRANCH (WBID # 1264)

I. Introduction

Date & Time (include AM or PM): _____

Interviewed: ☐ In person ☐ By phone ☐ By mail

(NOTE: If you are an Interviewee filling out this form to mail back to DNR, proceed to Question #1.)

Interviewee selected because (e.g., house next to stream; standing by stream, etc.) _____

Interviewer introduction to Interviewee: "My name is _____, I work for _____ (name of your employer), and I am collecting information on how people use _____ (name of the stream)."

ASK:

1.) Are you willing to respond to a survey about this stream? (It will just take a few minutes.)

☐ Yes ☐ No If yes, list contact information for the interviewee below:

Legal name: Jarrett Hawley

Current mailing address: 27901 S. State Rte Dd, Harrisonville Mo

Daytime phone number: (816) 884-5406

E-mail address (optional):

64701

2.a.) Do you live in this area? ☒ Yes ☐ No

If yes, how many years?

2.b.) If you don't live nearby, are you still familiar with this stream? ☐ Yes ☐ No

If yes, how many years?

If no, thank the individual for taking the time to talk to you and conclude the interview.

3.) Are you familiar with this particular stretch of the stream? (show them the map, pointing out local landmarks such as roads, bridges, property lines) ☐ Yes ☐ No

If yes, proceed to "II. Personal Use?".

If no, proceed to Section V.

II. Personal Use?

1.) Have you or your family personally used the stream for recreation since November 28, 1975?

☐ Yes ☐ No

If yes, proceed to #3.

If no, proceed to #2.

2.a.) List reasons stream not used.

2.b.) Proceed to "III. Witnessed Use?".

3.) How do you use the stream?

Whole Body Contact Recreation			
Swimming <input type="checkbox"/>	Tubing <input type="checkbox"/>	Snorkeling/Skin Diving <input type="checkbox"/>	Water Skiing <input type="checkbox"/>

If Interviewee (or family) used the stream for WBCR since Nov. 28, 1975, ask:

4.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

4.b.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

Secondary Contact Recreation				
Fishing <input type="checkbox"/>	Wading <input type="checkbox"/>	Boating <input type="checkbox"/>	Trapping <input type="checkbox"/>	Other: <input type="checkbox"/> List: _____

If Interviewee (or family) used the stream for SCR since Nov. 28, 1975, ask:

4.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

4.d.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

III. Witnessed Use?

1.) Have you observed others using this stream for recreation since Nov. 28, 1975? ☐ Yes ☐ No

If yes, proceed to #2.

If no, proceed to, "IV. Anecdotal Use?".

2.) What kinds of uses have you witnessed?

Whole Body Contact Recreation			
Swimming <input type="checkbox"/>	Tubing <input type="checkbox"/>	Snorkeling/Skin Diving <input type="checkbox"/>	Water Skiing <input type="checkbox"/>

If Interviewee witnessed WBCR use since Nov. 28, 1975, ask the following questions:

2.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.b.) Where, exactly? Describe specific location *and mark on the map* (Seemap requirements in the protocol). _____

Secondary Contact Recreation

Fishing ☐ Wading ☐ Boating ☐ Trapping ☐ Other: ☐ List: _____

If Interviewee witnessed SCR use since Nov. 28, 1975, ask the following questions:

2.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.d.) Where, exactly? Describe specific location *and mark on the map* (Seemap requirements in the protocol). _____

IV. Anecdotal Use?

1.) Have you heard about anyone using this stream since Nov. 28, 1975 for recreation – not seen or done yourself, but just heard about it? ☐ Yes ☐ No

If yes, proceed to #2.

If no, thank the individual for taking the time to talk to you and conclude the interview.

2.) What kind of uses have you heard about?

Whole Body Contact Recreation

Swimming ☐ Tubing ☐ Snorkeling/Skin Diving ☐ Water Skiing ☐

If Interviewee heard of WBCR use since Nov. 28, 1975, ask the following questions:

2.a.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.b.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

Secondary Contact Recreation

Fishing ☐ Wading ☐ Boating ☐ Trapping ☐ Other: ☐ List: _____

If Interviewee heard of SCR use since Nov. 28, 1975, ask the following questions:

2.c.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.d.) Where, exactly? Describe specific location *and mark on the* (See map requirements in the protocol). _____

V. Others to Contact?

Can you recommend someone else we could contact that knows the stream? ☐ Yes ☐ No
If yes, that person's contact info (name, address, phone, directions?) _____

If no, thank the individual for taking the time to talk to you and conclude the interview.

VI. Additional Comments

1.) From the Interviewee: _____

2.) From the Interviewer: _____

VII. Information on Interviewer

Has interviewer been trained by Missouri DNR to conduct UAA Interviews?

☐ Yes ☐ No If yes, how (check all that apply):

Workshop? (if so, enter date): _____

On-line training seminar? _____

Followed Interview Instruction Sheets? _____

Other _____

Interviewer Information:

Signature: _____

Printed Name: _____

Employer (where applicable): _____

Interviewer's phone #: _____ E-mail: _____

Field Data Sheet for Recreational Use Stream Survey

Data Sheet D—Recreational Use Interview

Stream Name EAST BRANCH (WBID # 1264)

I. Introduction

Date & Time (include AM or PM): _____

Interviewed: ☐ In person ☐ By phone ☐ By mail

(NOTE: If you are an Interviewee filling out this form to mail back to DNR, proceed to Question #1.)

Interviewee selected because (e.g., house next to stream; standing by stream, etc.) _____

Interviewer introduction to Interviewee: "My name is _____, I work for _____ (name of your employer), and I am collecting information on how people use _____ (name of the stream)."

ASK:

1.) Are you willing to respond to a survey about this stream? (It will just take a few minutes.)

☐ Yes ☐ No If yes, list contact information for the interviewee below:

Legal name: CLARENCE Mc VAY
Current mailing address: 18305 E. 315TH ST. HARRISONVILLE, MO
Daytime phone number: (816) 380-7583
E-mail address (optional): 64701

2.a.) Do you live in this area? ☒ Yes ☐ No
If yes, how many years? (816) 547-7583

2.b.) If you don't live nearby, are you still familiar with this stream? ☐ Yes ☐ No
If yes, how many years?

If no, thank the individual for taking the time to talk to you and conclude the interview.

3.) Are you familiar with this particular stretch of the stream? (show them the map, pointing out local landmarks such as roads, bridges, property lines) ☐ Yes ☐ No

If yes, proceed to "II. Personal Use?".

If no, proceed to Section V.

II. Personal Use?

1.) Have you or your family personally used the stream for recreation since November 28, 1975?

☐ Yes ☐ No

If yes, proceed to #3.

If no, proceed to #2.

2.a.) List reasons stream not used.

2.b.) Proceed to "III. Witnessed Use?".

3.) How do you use the stream?

crops on both sides (rental farming)
FISHING!

Whole Body Contact Recreation

Swimming ☐ Tubing ☐ Snorkeling/Skin Diving ☐ Water Skiing ☐

If Interviewee (or family) used the stream for WBCR since Nov. 28, 1975, ask:

4.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

4.b.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

Secondary Contact Recreation

Fishing ☒ Wading ☐ Boating ☐ Trapping ☐ Other: ☐ List: _____

If Interviewee (or family) used the stream for SCR since Nov. 28, 1975, ask:

4.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? fishes frequently for channel catfish

4.d.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

III. Witnessed Use?

1.) Have you observed others using this stream for recreation since Nov. 28, 1975? ☐ Yes ☒ No

If yes, proceed to #2.

If no, proceed to, "IV. Anecdotal Use?"

2.) What kinds of uses have you witnessed?

Whole Body Contact Recreation

Swimming ☐ Tubing ☐ Snorkeling/Skin Diving ☐ Water Skiing ☐

If Interviewee witnessed WBCR use since Nov. 28, 1975, ask the following questions:

2.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.b.) Where, exactly? Describe specific location *and mark on the map* (Seemap requirements in the protocol). _____

Secondary Contact Recreation

Fishing ☒ Wading ☐ Boating ☐ Trapping ☐ Other: ☐ List: _____

If Interviewee witnessed SCR use since Nov. 28, 1975, ask the following questions:

2.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.d.) Where, exactly? Describe specific location *and mark on the map* (Seemap requirements in the protocol). _____

Fishing is allowed as long as people don't trash it up.

IV. Anecdotal Use?

1.) Have you heard about anyone using this stream since Nov. 28, 1975 for recreation – not seen or done yourself, but just heard about it? ☐ Yes ☐ No

If yes, proceed to #2.

If no, thank the individual for taking the time to talk to you and conclude the interview.

2.) What kind of uses have you heard about?

Whole Body Contact Recreation

Swimming ☐ Tubing ☐ Snorkeling/Skin Diving ☐ Water Skiing ☐

If Interviewee heard of WBCR use since Nov. 28, 1975, ask the following questions:

2.a.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.b.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

Secondary Contact Recreation

Fishing ☐ Wading ☐ Boating ☐ Trapping ☐ Other: ☐ List:

If Interviewee heard of SCR use since Nov. 28, 1975, ask the following questions:

2.c.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.d.) Where, exactly? Describe specific location *and mark on the* (See map requirements in the protocol). _____

V. Others to Contact?

Can you recommend someone else we could contact that knows the stream? ☐ Yes ☐ No
If yes, that person's contact info (name, address, phone, directions?) _____

If no, thank the individual for taking the time to talk to you and conclude the interview.

VI. Additional Comments

- 1.) From the Interviewee: _____

- 2.) From the Interviewer: _____

VII. Information on Interviewer

Has interviewer been trained by Missouri DNR to conduct UAA Interviews?

☐ Yes ☒ No If yes, how (check all that apply):

Workshop? (if so, enter date): _____

On-line training seminar? _____

Followed Interview Instruction Sheets? _____

Other _____

Interviewer Information:

Signature: Jon Studtmann

Printed Name: Jon Studtmann

Employer (where applicable): BWR Corp.

Interviewer's phone #: 785.218.4752 E-mail: ideoduck@yahoo.com

Field Data Sheet for Recreational Use Stream Survey

Data Sheet D—Recreational Use Interview

Stream Name EAST BRANCH (WBID # 1204)

I. Introduction

Date & Time (include AM or PM): 11:15 5/22

Interviewed: ☐ In person ☒ By phone ☐ By mail

(NOTE: If you are an Interviewee filling out this form to mail back to DNR, proceed to Question #1.)

Interviewee selected because (e.g., house next to stream; standing by stream, etc.)
OWNS FARM AT STREAM & ACCESS POINT

Interviewer introduction to Interviewee: "My name is ✓, I work for ✓ (name of your employer), and I am collecting information on how people use ✓ (name of the stream)."

ASK:

1.) Are you willing to respond to a survey about this stream? (It will just take a few minutes.)

☒ Yes ☐ No If yes, list contact information for the interviewee below:

Legal name: MRS. EMMETT ANDERSON

Current mailing address: 15900 E. 319TH ST. ARCHIE MO

Daytime phone number: (816) 619-2490

E-mail address (optional):

64725

2.a.) Do you live in this area? ☒ Yes ☐ No

If yes, how many years? Several years

2.b.) If you don't live nearby, are you still familiar with this stream? ☐ Yes ☐ No

If yes, how many years?

If no, thank the individual for taking the time to talk to you and conclude the interview.

3.) Are you familiar with this particular stretch of the stream? (show them the map, pointing out local landmarks such as roads, bridges, property lines) ☐ Yes ☐ No

If yes, proceed to "II. Personal Use?".

If no, proceed to Section V.

II. Personal Use?

1.) Have you or your family personally used the stream for recreation since November 28, 1975?

☐ Yes ☐ No

If yes, proceed to #3.

If no, proceed to #2.

2.a.) List reasons stream not used.

2.b.) Proceed to "III. Witnessed Use?".

3.) How do you use the stream?

USED FOR FARMING

Whole Body Contact Recreation			
Swimming <input type="checkbox"/>	Tubing <input type="checkbox"/>	Snorkeling/Skin Diving <input type="checkbox"/>	Water Skiing <input type="checkbox"/>

If Interviewee (or family) used the stream for WBCR since Nov. 28, 1975, ask:

4.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

4.b.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

Secondary Contact Recreation			
Fishing <input type="checkbox"/>	Wading <input type="checkbox"/>	Boating <input type="checkbox"/>	Trapping <input type="checkbox"/> Other: <input type="checkbox"/> List: _____

If Interviewee (or family) used the stream for SCR since Nov. 28, 1975, ask:

4.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

4.d.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

III. Witnessed Use?

1.) Have you observed others using this stream for recreation since Nov. 28, 1975? ☐ Yes ☐ No

If yes, proceed to #2.

If no, proceed to, "IV. Anecdotal Use?"

2.) What kinds of uses have you witnessed?

Whole Body Contact Recreation			
Swimming <input type="checkbox"/>	Tubing <input type="checkbox"/>	Snorkeling/Skin Diving <input type="checkbox"/>	Water Skiing <input type="checkbox"/>

If Interviewee witnessed WBCR use since Nov. 28, 1975, ask the following questions:

2.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.b.) Where, exactly? Describe specific location *and mark on the map* (Seemap requirements in the protocol). _____

Secondary Contact Recreation

Fishing ☐ Wading ☐ Boating ☐ Trapping ☐ Other: ☐ List: _____

If Interviewee witnessed SCR use since Nov. 28, 1975, ask the following questions:

2.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.d.) Where, exactly? Describe specific location *and mark on the map* (Seemap requirements in the protocol). _____

IV. Anecdotal Use?

1.) Have you heard about anyone using this stream since Nov. 28, 1975 for recreation – not seen or done yourself, but just heard about it? ☐ Yes ☐ No

If yes, proceed to #2.

If no, thank the individual for taking the time to talk to you and conclude the interview.

2.) What kind of uses have you heard about?

Whole Body Contact Recreation

Swimming ☐ Tubing ☐ Snorkeling/Skin Diving ☐ Water Skiing ☐

If Interviewee heard of WBCR use since Nov. 28, 1975, ask the following questions:

2.a.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.b.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

Secondary Contact Recreation

Fishing ☐ Wading ☐ Boating ☐ Trapping ☐ Other: ☐ List: _____

If Interviewee heard of SCR use since Nov. 28, 1975, ask the following questions:

2.c.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.d.) Where, exactly? Describe specific location *and mark on the* (See map requirements in the protocol). _____

V. Others to Contact?

Can you recommend someone else we could contact that knows the stream? ☐ Yes ☐ No
If yes, that person's contact info (name, address, phone, directions?) _____

If no, thank the individual for taking the time to talk to you and conclude the interview.

VI. Additional Comments

1.) From the Interviewee: MAY WISH TO SPEAK WITH
MR ANDERSON FOR MORE KNOWLEDGE OF
STREAM

2.) From the Interviewer: _____

VII. Information on Interviewer

Has interviewer been trained by Missouri DNR to conduct UAA Interviews?

☐ Yes ☐ No If yes, how (check all that apply):

Workshop? (if so, enter date): _____

On-line training seminar? _____

Followed Interview Instruction Sheets? _____

Other _____

Interviewer Information:

Signature: _____

Printed Name: _____

Employer (where applicable): _____

Interviewer's phone #: _____

E-mail: _____